

## **AMENDMENTS TO THE SPECIFICATION**

Please amend paragraphs [0022], [0023], and [0027] of the specification as indicated below. No new matter is believed to be entered as a result of the aforementioned amendments to the specification.

[0022] In FIG. 1 there is an illustrated embodiment of a truck mounted cleaning system 10. Specifically, the illustrated embodiment provides a van (also referred to as a truck) 11 that has its roof 12 removed to illustrate features of the invention that are mounted in the storage area. In one embodiment a vehicle engine 14 may be coupled to a cleaning solution power and control system 22 to assist in powering the control system 22. The van 11 is illustrated to have at least two side doors 13, but any number and placement of doors will enable the illustrated invention. A carpet cleaning device, applicator, or wand 16 is illustrated to be coupled to the vacuum hose 18 and the cleaning solution supply hose 20. The control system 22 has an air compressor 24, a heating system 26, and a vacuum pump 33 associated therewith. There is a vacuum hose storage device 28 that may be coupled to the vacuum hose 18. The vacuum hose 18 may be of any standard length, such as 75 to 200 feet or more. The storage device 28 may be designed for the convenient storage of the large section of hose 18. The hose storage unit 28 has an effluent hose 29 that may be coupled to the effluent waste water reservoir, effluent storage system, or tank 30. A vacuum hose 31 may be coupled to the vacuum pump 33. The application wand 16, hose 18, storage unit 28, hose 29, tank 30, hose 31 and vacuum pump 33 are all coupled in any standard means that is sufficient to create a known vacuum air pressure for the intended purpose of removing cleaning solution from an application site. An air pressure supply line 32 may be coupled to one or more cleaning solution tanks 34 and 36, also referred to collectively as a cleaning solution storage system. The two illustrated tanks 34 and 36 contain the preferred acid and base cleaning solution mixtures, which will be discussed in more detail below. There may be a mixing chamber 38, coupled in series to each side of the two cleaning solution mixture tanks 34 and 36. An output solution hose 40 is coupled between the chamber 38 and the heater unit 26. One or more of the output solution hose 40, mixing chamber 38, heater unit or heating system 26 – together with the air pressure supply line 32, cleaning solution supply hose 20, and applicator or wand 16 – may create a delivery system for

delivering cleaning solution to the area to be cleaned. In one embodiment of the invention, the delivery system is actuated by air compressor or air pressure pump 24.

[0023] In the illustrated embodiments, the operation of the two solution tanks 34 and 36 generally follows known pressure tank operations that are coupled in series. Specifically, it is contemplated to use an acid solution in one set of tanks 34 and a base solution that would be contained in the other set of tanks 36. The different acid and base solutions are forced into the mixing chamber 38 via air pressure from air compressor 24, also referred to as air pressure pump 24. The mixing chamber 38 receives the pressurized solutions and mixes them together to form a preferred carbonated cleaning solution. Specifically, the particular acid and base cleaning solutions and preferred resulting carbonated cleaning solution, and methods of making the carbonated cleaning solutions that may be used are taught by U.S. Pat. Nos. 4,219,333, 5,244,468, 5,593,091, 5,634,465, and 5,718,729, which are each herein incorporated by reference ~~into the current specification~~ for their respective supporting teachings. It is noted that the term “cleaning solution” as used in the present application refers directly to the teachings of these listed patents, which in turn refer specifically to a carbonated cleaning solution.

[0027] It is also noted that the current system uses an air pressure pump ~~24~~<sup>34</sup>. in the typical prior art systems, which need large volumes of cleaning solution, it would be impossible to use an air pump system. An air pump system could not practically handle the amount of liquid needed for proper operation of those systems. Conversely, it is because of the low volumes of cleaning solution required for proper operation of the illustrated embodiments that an air pressure pump can be used in the present embodiment. One advantage in using air pressure pumps is that they do not come into physical contact with the working solutions like liquid pumps do. It has recently been identified that this contact with water pumps eventually corrodes ~~corrode~~ or deteriorates ~~deteriorate~~ the liquid pump when using corrosive solutions, like the basic and acidic solution described in the illustrated embodiment. Therefore, the air pump 24 is superior in that there is no direct contact with the pump components. Additionally, an air pump provides for a steadier and equal flow rate between the two separate paths for the two solutions, one in cleaning solution tanks 34 and the other in cleaning solution tanks 36. This even matching of flows avoids uneven mixture of solutions in the mixing chamber

38, thus having accurate effervescent cleaning solution mixtures for proper cleaning. When testing the current illustrated embodiment, the following results were achieved under the following listed conditions. Using approximately a {fraction (3/16)} inch inside diameter cleaning solution hose and having a length of 150 feet, a flow rate of about 0.44 gallons per minute was achieved, as compared to the larger typical 1.8 gallons per minute flow rate for typical prior art designs. That is a 409% decrease in flow rate over the prior art. Therefore, one embodiment of the present invention is to provide a remote cleaning vehicle that can supply a flow rate of cleaning solution that is less than 1.5 gallons per minute, and preferably less than 0.5 gallons per minute. Thus, with those flow rates, the illustrated invention would prevent large quantities of dirty cleaning solution for a given amount of cleaning time.